

To discuss with the duty biochemist call 0114 243 4343

References: (1) Clin Endocrinol. 2011;75:743-746. (2) DTB 2013;51:33-36. (3) <u>www.acb.org.uk/Nat%20Lab%20Med%20Hbk/Magnesium.pdf</u> (4) <u>https://www.nice.org.uk/advice/esuom4/chapter/key-points-from-the-evidence</u> (accessed 19/12/17). (5) bnf.org

Dietary Sources of Magnesium:

Magnesium is widely distributed in plant and animal foods and in beverages. Green leafy vegetables, such as spinach, legumes (eg peas, beans, chickpeas, lentils), nuts, seeds, and whole grains, are good sources. https://ods.od.nih.gov/factsheets/Magnesium-HealthProfessional/#h3

Oral Magnesium Preparations:

Magnesium (Mg ^{2*}) salt and form	Supplier (Brand)	Form and strength	Qualitative and quantitative composition	Adult (>18years) dose
Magnesium-L- aspartate	Kora Healthcare Ltd (Magnaspartate [®])	243 mg (10 mmol) powder for oral solution	Each 6.5 g sachet of powder contains magnesium aspartate dihydrate equivalent to 10mmol (243 mg) of magnesium.	1-2 sachets daily (243- 486 mg magnesium or 10-20 mmol magnesium)
	Contains sucrose. Patients with rare hereditary problems of fructose intolerance, glucose-galactose malabsorption or sucrase-isomaltase insufficiency should not take this medicine. Care should also be taken in diabetic patients. Frequent and long-term use of Magnaspartate 243 mg may be harmful to the teeth (caries).			
Magnesium glycerophosphate	Neoceuticals Ltd (Neomag [®])	4 mmol chewable tablets	Each chewable tablet contains magnesium glycerophosphate equivalent to 4mmol (97mg) of magnesium	Starting doses for adult patients are recommended as 4-8 mmol (1-2 tablets) administered 3 times a day. This equates to a total dose of 12 to 24 mmol per day taken in divided doses.

For more information please see: http://www.medicines.org.uk/emc/medicine/33475 http://www.medicines.org.uk/emc/medicine/30238 bnf.org

If an undesirable effect occurs, such as diarrhoea, the therapy should be temporarily interrupted and can be restarted after improvement and /or elimination of the symptoms with a reduced dosage.